

CLAIMS

1. A method for manufacturing a heat-fusion bonding adhesive comprising the steps of heating a thermoplastic resin to a temperature of no less than a softening point of the resin, and dispersing the resin in the softened state in an aqueous medium to obtain an aqueous dispersion of the thermoplastic resin.

10. 2. The manufacturing method according to claim 1, wherein the dispersing of said thermoplastic resin in said aqueous medium is conducted by applying a shear force to said aqueous medium by stirring.

15 3. The manufacturing method according to claim 2, wherein the stirring of said aqueous medium is conducted till said thermoplastic resin is divided into particles with a weight-average particle diameter of 0.1-20 μ m.

20 4. The manufacturing method according to claim 1, wherein at least one of a surfactant, a dispersing agent, and a basic substance is added to said aqueous medium.

25 5. The manufacturing method according to claim 1, wherein said thermoplastic resin is softened by being heated to a temperature of 50-300°C.

6. The manufacturing method according to claim 1, wherein the ratio of said aqueous medium is 30-1500 weight parts per 100 weight parts of said thermoplastic resin.

5

7. The manufacturing method according to claim 1, wherein the viscosity of said aqueous medium is adjusted to 5000-50,000mPa·sec by the addition of a viscosity-adjusting agent.

10

8. The manufacturing method according to claim 1, wherein said thermoplastic resin is selected from the group consisting of copolyamide resins, copolyester resins, and mixtures thereof.

15

9. The manufacturing method according to claim 8, wherein said copolyamide resin has structural units of at least two types selected from the group consisting of

-[NH(CH₂)₅CO]-, -[NH(CH₂)₆NHCO(CH₂)₄CO]-, -

20 [NH(CH₂)₆NHCO(CH₂)₈CO]-, -[NH(CH₂)₁₀CO]-, and -

[NH(CH₂)₁₁CO]-.

10. The manufacturing method according to claim 8, wherein said copolyester resin is a resin obtained by

25 polycondensation of an acid component comprising terephthalic acid and isophthalic acid and a diol component selected from the group consisting of

ethylene glycol, diethylene glycol, polyethylene glycol, 1,4-butane diol, and 1,6-hexane diol.

Graph A1
11. A heat-fusion bonding adhesive prepared by the
5 manufacturing method defined in any one of claims 1 to
10.

12. An adhesive fabric obtained by coating, on a
surface of a base fabric, the heat-fusion bonding
10 adhesive prepared by the manufacturing method defined
in any one of claims 1 to 10, and then thermally fusing
the adhesive.

10030845 "01.1.102